wherein each of said testing steps respectively includes said generating step, said supplying step, and said receiving step.

The inventive methods also include receiving passive test measurement values from at least one of the modules of the logical group; and storing results of the active test and the passive test measurement values for each of the modules in the database.

Moreover, the modules comprising the logical groupings are not necessarily physically adjacent to one another.

The inventive virtual oven system may also utilize an inventive database. In particular, the database invention includes a stress-test information database stored in a computer-readable medium and usable for storing information related to a stress-test of different products, comprising: a product data entity storing product-specific information for a plurality of the different products that may be subjected to the stress-test; a process data entity storing testing process information for conducting one or more stress-test processes of the stress-test; a result data entity storing stress-test result information relating to one or more results of the stress-test processes; a product-result map relating said product data entity to said result data entity; and a process-result map relating said process data entity to said result data entity.

The stress-test information database may further include, particularly when a plurality of equipment is utilized to conduct the stress-test, the following elements: a command data entity storing command information that may be utilized to command the equipment; and an equipment data entity storing information relating to the equipment; said equipment data entity being associated with said command data entity to permit a variety of equipment-specific command information to be retrieved.

The command data entity may include a generic command data entity storing information relating to generic commands usable to conduct the stress test processes and an equipment command string data entity usable for translating generic commands to equipment-specific commands, said generic command data entity being associated with said equipment command string data entity; and said equipment data entity being associated with said command data entity, wherein a generic command may be translated into an equipment-specific command via the associations between said generic command data entity, said equipment command string data entity, and said equipment data entity.

In addition, the stress-test database may further include: a parsing table storing information relating to parsing of equipment-specific data received as a result of the stress test; said parsing table being associated with said equipment data entity to permit the equipment-specific data to be parsed into a more consistent format suitable for storage by said result data entity.

If the database is used with the virtual oven invention discussed above, it is advantageous to further include a virtual oven data entity storing information relating to one or more virtual ovens that may be utilized to conduct the stress test. More particularly, the process data entity may include: a process information item storing information relating to stress test process identity and test process description; a process test run data entity storing information relating to stress test process identity, virtual oven identity and stress test process start/stop time(s); and a virtual oven data entity storing information relating to virtual oven identity, virtual oven description and virtual oven location, said process test run data entity relating said virtual oven data entity to said process information item in order to

permit functional associations between virtual ovens, stress test processes, and process-test runs.

Moreover, the stress-test database may also include a test criteria data entity storing information relating to stress-test criteria, said test criteria data entity being associated with said result value data entity, said result value data entity item further including a pass/fail information item, said result value data entity and said test criteria data entity being usable to determine whether the product has passed or failed one or more of the stress-test processes.

In addition, an inventive method of storing information related to a stress-test of different products in a computer-readable stress-test information database is disclosed and includes: storing product-specific information for a plurality of the different products that may be subjected to the stress-test in a product data entity; storing testing process information for conducting one or more stress-test processes of the stress-test in a process data entity; storing stress-test result information relating to one or more results of the stress-test processes in a result data entity; relating the product data entity to the result data entity with a product-result map; and relating the process data entity to the result data entity with a process-result map.

Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.